Index of Claims



Application/Control No.

10/538,078

Examiner

Matthew L. Reames

Applicant(s)/Patent under Reexamination

CHOI, SUNG-CHUL
Art Unit

2891

| 7 | Rejected |
|---|----------|
| 1 | Allowed  |

(Through numeral) Cancelled

Restricted

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| Α | Appeal   |
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| 0 | Objected |

| Cli                    | aim :    |          |          |          |           | ) at     | е        |          |           | 7::::             | Cla      | aim      |                      | [              | Date     |                 |                 | ]:::              | CI            | aim        |  |               |  | Da           | te              |          |          |          |
|------------------------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|-------------------|----------|----------|----------------------|----------------|----------|-----------------|-----------------|-------------------|---------------|------------|--|---------------|--|--------------|-----------------|----------|----------|----------|
|                        |          |          |          |          |           |          |          |          |           | 7:::              |          |          |                      |                |          |                 |                 |                   |               | _          | П  |               |  | Ī            | Ť               | -        | Т        | П        |
| <u></u>                | Original |          |          |          |           |          | l        | ]        |           |                   | Final    | Original | -                    |                |          |                 |                 |                   | <u>a</u>      | Original   | 1  |               |  |              |                 |          |          |          |
| Final                  | Ę.       |          |          |          |           |          |          | ì        |           |                   | i E      | Ę        |                      |                |          |                 |                 |                   | Final         | Ē          | ii   |               | ĺ  |              |                 |          |          |          |
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| · -                    | 1        | 1        |          |          |           |          |          |          |           |                   | $\vdash$ | 51       |                      | $\top$         | $\dashv$ | $\pm$           |                 |                   |               | 101        | <del>                                     </del> | $\dashv$      | ╁╌   | +-           | +               | ╁        | ┢        | H        |
|                        | 2        | 1        |          | $\dashv$ |           |          | $\Box$   | _        | _         |                   |          | 52       | h                    | +              |          | _               | +-              |                   |               | 102        | 1-1  |               | +  | ┿            | ╁               | ┼─       | ┢        | Н        |
|                        | 3        | V        |          | $\dashv$ | $\dashv$  |          | $\dashv$ | $\dashv$ | +         |                   |          | 53       | <del>   - -</del>    | +              | $\dashv$ | +               |                 |                   |               | 103        | ┝╌┤  |               | +  | ┿            | ╁╌              | ┼        | ⊢        | H        |
|                        | 4        | 1        | H        | Ī        | 一         |          | $\vdash$ | _        | $\top$    | †:::              | ļ        | 54       |                      | +              | $\dashv$ |                 | +               |                   |               | 104        | Н  |               | +  | ╁            | +-              | ╁        | $\vdash$ | $\vdash$ |
|                        | 5        | 1        |          |          | $\neg$    | _        | -        | -        | $\top$    |                   |          | 55       | <del>   - -</del>    | 1              | -        | +               | _               |                   |               | 105        |  |               | ╁  | +-           | +-              | +        | $\vdash$ | $\vdash$ |
|                        | 6        | 1        | -        | 7        |           |          | -        |          | +         | 1:::              |          | 56       | <del>   - -</del>    | +              |          | ++              | _               | {:::              |               | 106        | -  |               | +  | +            | ╁               | ╁        | -        | Н        |
|                        | 7        | 1        |          | $\neg$   | 一         |          |          | $\neg$   | +         |                   |          | 57       |                      | + 1            | -        | ++              |                 |                   |               | 107        | $\vdash$   |               | +-   | ╁            | ┰               | $\vdash$ | Н        | $\vdash$ |
| <del></del>            | 8        | 7        | T        | 寸        | T         |          | $\vdash$ |          | +-        |                   |          | 58       |                      | +              |          | +               | +               |                   |               | 108        | H  |               | +  | ╫            | ╁               | -        | Н        | $\vdash$ |
|                        | 9        | 1        |          | _        |           | _        | $\dashv$ | $\top$   | 1-        |                   | -        | 59       | <del></del>          | +-             |          | +               | +               |                   |               | 109        | $\vdash$   |               | ╫  | ┿            | +-              | ├        | Н        | Н        |
|                        | 10       | 1        |          | 1        | $\exists$ |          | $\neg$   |          | 1         |                   |          | 60       |                      | 11             | $\dashv$ | + +             |                 |                   |               | 110        | $\dashv$   |               | +  | ╁            | ╁               | ⊢        | Н        | $\vdash$ |
|                        | 11       | 1        | 1        | 寸        | 1         | _        | _        | _        | +         |                   | -        | 61       |                      | +-+            | +        | ╅               | +-              |                   |               | 111        | H  |               | ╁  | ╁╌           | ╁               | $\vdash$ | ⊢        | -        |
|                        | 12       | 7        | $\dashv$ | 一        | 寸         | $\neg$   | _        | _        | _         |                   |          | 62       | _                    |                | 一        |                 |                 |                   | -             | 112        | $\vdash$   |               | ╁  |              | ╁               | $\vdash$ | -        | -        |
|                        | 13       | Ė        | $\dashv$ | +        |           |          | 十        | _        | $\top$    |                   |          | 63       | <del>-    -</del>    | +              | +        | $\dashv \dashv$ | +               | :::               | -             | 113        | $\dashv$   |               | +  | +-           | ╁╌              | $\vdash$ | ┌┤       | $\dashv$ |
|                        | 14       |          | $\dashv$ | -        | $\dashv$  | 一        | _        | $\top$   | +         |                   |          | 64       | -                    | +              | _        | ++              | _               |                   |               | 114        | $\dashv$   |               | +  | +            | ╁               | $\vdash$ | $\vdash$ |          |
| <b> </b>               | 15       |          | $\dashv$ | 寸        | $\dashv$  | $\dashv$ | $\dashv$ | _        | +         |                   |          | 65       | <del>-   -   -</del> | +              | $\dashv$ |                 | +-              |                   |               | 115        | $\dashv$   | +             | +-   | +-           | ╁               | $\vdash$ | $\vdash$ |          |
| <b> </b>               | 16       | $\vdash$ | $\dashv$ | $\dashv$ | +         | .        | $\dashv$ | _ -      | +         |                   |          | 66       |                      | ++             | $\dashv$ | <del>-  </del>  | +-              |                   |               | 116        | +  |               | $\vdash$   | +            | ╁               | $\vdash$ | $\vdash$ | $\dashv$ |
| _                      | 17       | _        | $\neg$   | _        | -         | $\neg$   | _        | $\dashv$ | +-        |                   |          | 67       |                      | 1 1            | -+       | ++              | +               |                   |               | 117        |  | -             | ╁  | ╁            | -               | $\vdash$ | $\vdash$ | -        |
|                        | 18       |          |          | +        | _         | $\dashv$ | $\dashv$ | _        | +-        |                   |          | 68       | <del>-    -</del>    | +              | +        | +-+             | +-              |                   |               | 118        |  |               | ╁╌   | ╁            | ╆               | H        | $\vdash$ | $\dashv$ |
|                        | 19       |          | _        | $\dashv$ | ╡         | $\dashv$ | +        | +        | ╅         | 1                 |          | 69       |                      | ╅              | $\dashv$ | $\dashv$        | +               |                   |               | 119        | $\rightarrow$                                    |               | ╀  | ⊢            | ┼               | $\vdash$ | -        | $\dashv$ |
|                        | 20       |          | $\dashv$ | $\dashv$ | _         | $\dashv$ | $\dashv$ |          | 1         |                   |          | 70       |                      | <del>-  </del> | +        | +               | -               |                   | $\rightarrow$ | 120        | -  |               | +  | -            | $\vdash$        |          | $\dashv$ | $\dashv$ |
| $\vdash$               | 21       | -        | $\dashv$ | $\dashv$ | ┪         | -        | +        | -        |           |                   |          | 71       | +                    | +              | $\dashv$ | ++              | ╅               |                   |               | 121        |  | -             | ┢  | +-           | +-              | Н        | $\dashv$ | $\dashv$ |
| -                      | 22       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | +        |          | +         |                   |          | 72       |                      | ╅              | +        | ╁               | +               |                   |               | 122        | $\dashv$   | $\dashv$      | ╀  | ╁            | +               | $\vdash$ | $\dashv$ | _        |
|                        | 23       |          |          | _        | _         |          |          |          | +         |                   |          | 73       | <del></del>          | 1 1            |          | ╅               |                 |                   |               | 123        |  |               | ┼  | ╁            |                 | $\vdash$ |          | -        |
| $\vdash$               | 24       | _        | -        | +        | 十         | _        | $\dashv$ | +        | +         |                   |          | 74       | -+-                  | +              |          | ╁┯┼             | +               |                   | $\dashv$      | 124        | $\dashv$   | +             | ╁╾   | ╁            | ├               | $\vdash$ | $\dashv$ | $\dashv$ |
|                        | 25       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | +-        |                   |          | 75       | +                    | ++             | _        | ++              |                 |                   |               | 125        | <del>-</del>  -                                  | $\dashv$      | ┼  | ╁            | ├               | $\vdash$ | -        | $\dashv$ |
|                        | 26       |          | $\neg$   | $\dashv$ | _         | _        | _        |          | +         |                   |          | 76       | <del></del>          | + +            | +        | +               | -               |                   |               | 126        | $\dashv$   |               | ├  | ╁            | $\vdash$        | ┝╌┤      | $\dashv$ | $\dashv$ |
|                        | 27.      |          | 十        | $\dashv$ | 7         |          | +        | _        | +         |                   |          | 77       |                      | + +            | +        |                 | +               |                   | $\dashv$      | 127        | $\dashv$   |               | ┼  | ╁            | ┢               | $\vdash$ | $\dashv$ | $\dashv$ |
| $\vdash$               | 28       | $\dashv$ | 十        | 1        | $\dashv$  | $\dashv$ | $\dashv$ | _        | +         |                   |          | 78       |                      | ++             | _        | ++              | $\vdash$        |                   |               | 128        | +  | $\dashv$      | $\vdash$   | -            | -               | $\vdash$ | -        | $\dashv$ |
|                        | 29       | _        | ┰        | 十        | +         | 寸        | $\dashv$ | $\top$   | +         |                   | _        | 79       | +-                   | + +            | -        | ++              | $\dashv$        |                   |               | 129        | -  |               | -  | ╁            | ┢               | $\vdash$ | $\dashv$ | $\dashv$ |
|                        | 30       |          | 十        | +        | $\dashv$  | _        |          | _        | +         |                   |          | 80       | <del></del>          | ++             |          | ++              | ╅               |                   |               | 130        |  | <del></del> - | <del>                                     </del> |              | -               |          | $\dashv$ | $\dashv$ |
| H                      | 31       | ╗        | $\dashv$ | $\dashv$ | ╅         | ┪        | $\dashv$ | +        | ╁         |                   |          | 81       | -                    | +-+            | +        | ++              | +               |                   |               | 131        |  | +             | -  | -            | ┢               | $\dashv$ | $\dashv$ |          |
| $\vdash$               | 32       | $\dashv$ | 十        | $\dashv$ | 寸         | -        | $\top$   | +        | +         |                   |          | 82       |                      | + +            | -        | ++              | -               |                   | -             | 132        | $\dashv$   | +             | -  | -            |                 | -        | $\dashv$ | -        |
|                        | 33       | T        | _        | $\dashv$ | $\dashv$  | ┪        | +        |          | 1         |                   |          | 83       | <del>-    -</del>    | ╅              | +        | +-+             | +               | :::}              | $\rightarrow$ | 133        | +  | ╁             | ├  | ┢            | ├               | -        | $\dashv$ | $\dashv$ |
| $\vdash$               | 34       | 一        | $\dashv$ | _        | $\dashv$  | -+       | +        | $\top$   | +         |                   |          | 84       |                      | ++             | $\dashv$ | ++              | +               | $\cdot$           |               | 134        | +  | +             | <del>                                     </del> |              | <del> -</del>   | $\vdash$ | $\dashv$ | $\dashv$ |
| $\vdash$               | 35       |          | +        | $\top$   | 十         | _        | 7        | $\dashv$ | +         |                   |          | 85       | ++                   | ++             | +        | ++              | -               | ी                 | -             | 135        | ┰  |               | $\vdash$   | $\vdash$     | $\vdash$        | $\vdash$ | $\dashv$ | $\dashv$ |
|                        | 36       |          | $\dashv$ | $\top$   | $\dashv$  | $\dashv$ | $\top$   | $\neg$   | $\dagger$ | ::: <b>:</b>      | -        | 86       |                      | +-+            | +-       | +               | $\dashv\dashv$  | $\cdot$           | -+            | 136        | +  | +             | $\vdash$   | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ |
|                        | 37       | _        | +        | $\top$   | $\dashv$  | $\dashv$ | $\dashv$ | $\top$   | +         |                   |          | 87       | -                    | ++             | +        | + +             | $\dashv \dashv$ | ::I+              |               | 137        | $\dashv$   | +             | -  | $\vdash$     | Н               | $\dashv$ | +        | $\dashv$ |
| $\vdash$               | 38       | +        | $\dashv$ | $\dashv$ | $\dashv$  | +        | +        | $\dashv$ | $\dagger$ | ::                |          | 88       | +                    | + +            | +        | ++              | ╅               | :::\{\bar{\pi} \} | -             | 138        | $\dashv$   | $\dashv$      | $\vdash$   | $\vdash$     | $\vdash$        | +        | -+       | $\dashv$ |
| $\vdash$               | 39       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\top$   | +        | +         |                   |          | 89       |                      | +-+            | $\dashv$ | +-              | +               | ::: -             | -             | 139        | $\dashv$   | +             | <del>                                     </del> | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash$               | 40       |          | _        | +        | +         | _        | _        | _        | $\dagger$ |                   | -+       | 90       | ++                   | ++             | $\dashv$ | ++              | $\dashv\dashv$  | ::                |               | 140        | $\dashv$   | +             | ├-   | ⊢            | $\vdash$        | -        | +        | $\dashv$ |
| $\vdash \vdash \vdash$ | 41       | $\dashv$ | +        | +        | $\dashv$  | -        | +        | +        | +         |                   |          | 91       | +                    | ++             | $\dashv$ | +               | +               | $\vdash$          |               | 141        | +  |               | $\vdash$   |              | $\vdash$        | +        | $\dashv$ | $\dashv$ |
| $\vdash \vdash \vdash$ | 42       | +        | $\dashv$ | +        | $\dashv$  | +        | +        | +        | +-        | :::\ <del>-</del> | $\dashv$ | 92       |                      | ++             | +        | +               | +               | $\cdot$           | <del></del>   |            | +  | +             | -  | -            | $\vdash \vdash$ | -+       | +        | $\dashv$ |
| $\vdash \vdash \vdash$ | 43       | -+       |          | -        | 十         | 一        | +        | +        | +         | · · · · ·         | -+       | 93       | <del>       </del>   | +              | +        | ++              | -               | 1                 | <del> -</del> | 142<br>143 | +  |               | -  | <del> </del> | $\vdash$        | -        | +        | $\dashv$ |
| $\vdash$               | 44       | $\dashv$ | $\dashv$ | +        | +         | $\dashv$ | +        | _        | +         |                   | $\dashv$ | 94       | ++-                  | ++             | +        | ++              | +               | ::                |               | 144        | +  | -             | H  | <u> </u>     |                 | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash$               | 45       | $\dashv$ | $\dashv$ | +        | +         | $\dashv$ | +        | +        | +         | ::                |          | 95       |                      | ++             | +        | + +             | $\dashv \dashv$ | ŀ                 | -             | 144        | -  | -             | -  |              | $\vdash \vdash$ | $\dashv$ | +        | $\dashv$ |
| $\vdash \vdash$        | 46       |          | $\dashv$ | -        | -         | $\dashv$ |          | +        | $\vdash$  | ඃᡰ                |          | 96       | <del>-   -  </del>   | ++             | +-       | ++              | +               | H                 | +             | 146        | +  | +             | $\vdash$   | $\vdash$     | $\vdash$        | +        | $\dashv$ | $\dashv$ |
| <del>   </del>         | 47       | -        | -        | +        | +         | +        | +        | +        | $\vdash$  | ះ                 |          | 97       | <del>  </del>        | ++             | - -      | ++              | 1-1             |                   |               | 147        |  | +             | -  | -            | $\vdash$        |          | +        | $\dashv$ |
|                        | 48       | $\dashv$ | +        | +        | +         | -        | +        | +        | +-        | ::: -             |          | 98       | <del>   -</del>      | +              | +-       | +               | +               | :-                |               | 148        |  | -             | _  | $\vdash$     | $\vdash \vdash$ | -+       | +        | $\dashv$ |
| $\vdash$               | 49       | _        | $\dashv$ | +        | $\dashv$  | $\dashv$ | -        | _        | $\top$    | :::\b             |          | 99       |                      | + +            | +        | +               | +               | $\vdash$          |               | 149        | +  | +             | -  | Н            | $\dashv$        | $\dashv$ | +        | $\dashv$ |
| $\vdash$               | 50       | 十        | $\dashv$ | +        | -         | $\dashv$ | +        | +        | +         | 計                 |          | 100      | +-                   | ++             |          | ++              | +               | ∷⊦                |               | 150        | - -  | +             | -  | -            |                 | -        | +        | $\dashv$ |
| ч                      | ~        |          |          |          |           | i_       |          | t        | -         | w.L               |          | .00      |                      |                |          |                 |                 | · ···L            | - [           | 100        | - 1  | - 1           |  |              |                 | ı        | - 1      |          |